

CLAIMS

1. (Currently Amended) A mobile terminal comprising:
 - a body;
 - a flip portion; and
 - a hinge connecting said body to said flip portion, said hinge comprising hinge plates that function as an inverted-F antenna for use by an electronic circuit positioned within said mobile terminal.
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3. (Original) The mobile terminal of claim 1 wherein said antenna is operative at frequencies between 2.4 and 2.485 GHz.
4. (Original) The mobile terminal of claim 1 wherein said antenna operates within the ISM band.
5. (Original) The mobile terminal of claim 1 wherein said antenna receives a GPS signal.
6. (Previously Presented) The mobile terminal of claim 1 further comprising a second hinge, said second hinge comprising second hinge plates that function as a second antenna.

7. (Original) The mobile terminal of claim 6 wherein said first antenna is adapted for use at frequencies ranging from 2.4 to 2.485 GHz and said second antenna is adapted for receiving a GPS signal.

8. (Original) The mobile terminal of claim 1 further comprising a printed circuit board adapted to hold said electronic circuit.

9. (Original) The mobile terminal of claim 8 further comprising a fastener attaching said antenna to said printed circuit board.

10. (Original) The mobile terminal of claim 9 wherein said fastener is a screw.

11. (Original) The mobile terminal of claim 10 further comprising a second fastener attaching said antenna to said printed circuit board.

12. (Original) The mobile terminal of claim 11 wherein one of said fasteners acts as a connection to ground for said antenna and the other of said fasteners acts as an RF feed for said antenna.

13. (Currently Amended) A method of constructing a mobile terminal, comprising:
positioning a printed circuit board in the mobile terminal;
fastening an inverted-F antenna to said printed circuit board; and

using said inverted-F antenna to function as hinge plates of a hinge for a flip portion of said mobile terminal.

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15. (Original) The method of claim 13 further comprising receiving and transmitting Bluetooth communications through said antenna.

16. (Original) The method of claim 13 further comprising receiving a GPS signal through said antenna.

17. (Original) The method of claim 13 wherein fastening an antenna to said printed circuit board comprises using a first fastener as a connection to ground and using a second fastener as an RF feed.

18. (Original) The method of claim 13 further comprising opening and closing said hinge during operation of the mobile terminal.

19. (Previously Presented) A mobile terminal comprising:

a body;

a printed circuit board positioned inside said body;

a flip portion; and

a hinge, said hinge functioning as an inverted-F antenna and hingedly securing said flip portion to said body, said hinge electrically coupled to said printed circuit board.

20. (Original) The mobile terminal of claim 19 further comprising a voice communication transceiver and a second antenna adapted for use with said voice communication transceiver, said voice communication transceiver positioned within said body, and said second antenna spaced from said inverted-F antenna.

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